

White paper
June 2010

YendoTM

W150i, W150a, W150



Sony Ericsson
make.believe

Purpose of this document

Sony Ericsson product White papers are intended to give an overview of a product and provide details in relevant areas of technology.

Document history

Version		
June 2010	First released version	Version 1
June 2010	Second released version	Revision 1

June 2010	First released version	Version 1
June 2010	Second released version	Revision 1

Sony Ericsson Developer World

For the latest Sony Ericsson technical documentation and development tools, go to www.sonyericsson.com/developer

This White paper is published by:

Sony Ericsson Mobile Communications AB,
SE-221 88 Lund, Sweden

www.sonyericsson.com

© Sony Ericsson Mobile Communications AB, 2009-2010. All rights reserved. You are hereby granted a license to download and/or print a copy of this document. Any rights not expressly granted herein are reserved.

Second released version (June 2010)
Publication number: 1238-5191

This document is published by Sony Ericsson Mobile Communications AB, without any warranty*. Improvements and changes to this text necessitated by typographical errors, inaccuracies of current information or improvements to programs and/or equipment, may be made by Sony Ericsson Mobile Communications AB at any time and without notice. Such changes will, however, be incorporated into new editions of this document. Printed versions are to be regarded as temporary reference copies only.

This document may reference services or applications provided by third parties. Use of such programming or services may require separate registration with the third party provider and may be subject to additional terms of use. For applications accessed on or through a third-party website, please review such website's terms of use and applicable privacy policy in advance. Sony Ericsson does not warrant or guaranty the availability or performance of any third-party websites or offered services.

Some features described in this document are not supported by all networks and/or service providers in all areas. Please contact your network operator or service provider to determine availability of any specific service or feature and whether additional access or usage fees apply.

*All implied warranties, including without limitation the implied warranties of merchantability or fitness for a particular purpose, are excluded. In no event shall Sony Ericsson or its licensors be liable for incidental or consequential damages of any nature, including but not limited to lost profits or commercial loss, arising out of the use of the information in this document.

Table of contents

Product overview	4
Yendo™ – Touch the screen. Start the concert	4
Facts – dimensions, weight, performance and networks	5
Categorised list of features	7
Technologies in detail	8
Device-to-device communications (local)	8
Bluetooth™ wireless technology	8
Java™	8
Messaging	9
Multimedia (audio and video)	10
Web browser	11
Trademarks and acknowledgements	12

Product overview

Yendo™ – Touch the screen. Start the concert

Flick. Touch. Play. Scream. Or just lean back and drift away. To the music that moves you. Living is easy, especially through the 2.6" touchscreen. Four corners, four icons and everything you want. One touch away, in the simplest possible way. Isn't that how it should be?

Hit on the right hits

Touch to listen, skip, fast forward, replay. The tracks you love through the 3.5 mm stereo jack, or Bluetooth™ headset. Hit on the right hits with TrackID™ and the PlayNow™ service*. What's your favourite playlist? Easily move your music and your other files from your PC to Yendo™ with Media Go. In an instant.

All your true colours

Reinvent yourself. Through styles. Through colours. And tell everyone. With a quick text to Facebook™* or Twitter™. Speaking of colour. What's yours? Red for undying love? Shimmering silver from the glass skyscraper? Yellow for beach sunsets? There's up to ten to choose from, so finding your favourite could take time.



** This service is not available in all markets.*

Facts – dimensions, weight, performance and networks










Size	94 x 52 x 16 mm
Weight	81 grams
Available colours	Black Blue Green Orange Pink Purple Red Silver White Yellow
Main screen	
Colours	262,144k color TFT
Resolution	320x240 pixels (QVGA)
Size (diagonal)	2.6 inches
Input mechanisms	
Text input	Quick text (Zi), Onscreen 12 key keyboard
Touch screen	Capacitive (single touch)
Memory	
Phone memory	Up to 5 MB
Memory card support	microSD™, up to 16 GB
Camera	
Camera resolution	2 megapixel
Digital zoom	2x
Video recording	Yes
Networks	
W150i	GSM GPRS/EDGE 900, 1800
W150a	GSM GPRS/EDGE 850, 1900
W150	GSM GPRS/EDGE 900, 1800
Data transfer speeds	
GSM GPRS	Up to 85.6 Kbps
GSM EDGE	Up to 236.8 Kbps

Talk time (GSM)	4 hours *
Standby time (GSM)	400 hours *
Music listening time	30 hours **
Battery	970 mAh

* According to GSM Association Battery Life Measurement Technique.

** Battery performance may vary depending on network conditions and configuration, and phone usage.

Categorised list of features

 <p>Camera 2 megapixel camera 2x digital zoom Video recording</p>	 <p>Music Bluetooth™ stereo (A2DP) Music tones (MP3/AAC) PlayNow™ service * TrackID™ application Walkman™ player</p>	 <p>Internet Bookmarks Web browser (Obigo™ Q7) Web feeds</p>
 <p>Communication Call list Conference calls Facebook™ application * Polyphonic ringtones Speakerphone Twitter™ application</p>	 <p>Messaging Conversations Email Picture messaging (MMS) Predictive text input Sound recorder Text messaging (SMS)</p>	 <p>Design Four-corner home screen Keyboard (onscreen, 12-key) Touchscreen</p>
 <p>Entertainment Java™ Radio (FM) Video viewing</p>	 <p>Organiser Alarm clock Calculator Calendar Flight mode Notes Phone book Stopwatch Tasks Timer</p>	 <p>Connectivity 3.5 mm audio jack (AVP) Bluetooth™ technology USB mass storage USB support</p>

* This service is not available in all markets.

Technologies in detail

NOTE: The information outlined below is general and levels of compliance to standards and specifications may vary between products and markets. For more information, contact Sony Ericsson Developer World or your Sony Ericsson contact person where applicable.

Device-to-device communications (local)

Bluetooth™ wireless technology

Bluetooth™ profiles supported	Generic Access Profile Generic Object Exchange Profile Handsfree Profile Headset Profile Object Push Profile
Core version and supported features	2.0
Connectable devices	All products supporting Bluetooth spec. 2.0, or higher, and at least one of the profiles above

More information:

www.sonyericsson.com/developer

www.bluetooth.com

Java™

Java™ Platform, Micro Edition	JSR-75 PDA Optional Packages for J2ME™ JSR-118 MIDP 2.0 JSR-120 Wireless Messaging API JSR-135 Mobile Media API 1.1 JSR-139 CLDC 1.1 JSR-172 J2ME Web Services Specification JSR-185 Java™ Technology for the Wireless Industry Nokia UI Extension API
-------------------------------	---

Messaging

(MMS) Multimedia Messaging Service

According to OMA Multimedia Messaging Service v1.1 + SMIL

Email

Bearer type (IP)	GSM Data (IP) GPRS and HSCSD
Character sets	USASCII UTF-8 UTF-16 UTF-17LE UTF-16BE UCS-2 / ISO10646 UCS2 ISO-8859-1 ISO-8859-2 Eastern Europe ISO-8859-7 Greek ISO-8859-9 Turkish ISO-8859-10 Nordic KOI8 GB2312 Simplified Chinese BIG5 ISO2022JP Windows® 1251 Cyrillic Windows® 1252 Windows® 1254 Turkish Windows® 1255 Hebrew Shift JIS Note: GB2312 is available in Simplified Chinese variants only, that is, Mainland China variants. BIG5 is only available in Traditional Chinese variants, that is, Hong Kong and Taiwan variants.
OTA provisioning solution	OMA Client Provisioning 1.1
Protocols	POP3, SMTP and IMAP4

Multimedia (audio and video)

Audio Playback	Decoder format Audio decoding MPEG-1/2/2.5, audio layer 3 AAC, AAC+, eAAC+ AMR-NB General MIDI (GM) Linear/A-law/.-law PCM iMelody	Supported in file format MP3 (.mp3) 3GP (.3gp); AAC (.aac); MP4 (.mp4, .m4a) 3GP (.3gp); AMR (.amr) SMF (.mid) WAV (.wav) iMelody (.imy)
Audio Recording	Encoder format AMR-NB AAC-LC MP3	Supported in file format AMR (.amr) MP4 (.m4a) MP3 (.mp3)
Video Playback	Decoder format MPEG-4 Visual Simple Profile H.263 Profile 0	Supported in file format 3GP (.3gp); MP4 (.mp4) 3GP (.3gp)
Video Recording	Encoder format - Video: H.263 Profile 0 - Audio: AMR-NB - Video: MPEG-4 Visual Simple Profile - Audio: AAC-LC	Supported in file format 3GP (.3gp) MP4 (.mp4)

Web browser

Browser version	Obigo™ Q7
Bookmarks	Folders and sorting supported
Bookmark export/import	Bookmarks can be sent and received in vBookmark format using Bluetooth™ technology, SMS, MMS and email
Navigation/rendering	Full page PC rendering
Search	Internet Search
Browser compliancy	HTML version 4.01 XHTML Basic version 1.0 XHTML version 1.1 XHTML Mobile Profile version 1.1 WML 1.3 CSS 2.1 WCSS Version 26-Oct-2001 ECMAScript Mobile Profile 1.0 DOM 2.0
Protocol Compliancy	HTTP/1.1 TLS 1.0 and SSL 3.0 OMA Download 1.0

Trademarks and acknowledgements

The Liquid Identity and Liquid Energy logos, Yendo, PlayNow and TrackID are trademarks or registered trademarks of Sony Ericsson Mobile Communications AB. Sony, "make.believe" and Walkman are trademarks or registered trademarks of Sony Corporation. Ericsson is a trademark of Telefonaktiebolaget LM Ericsson.

TrackID is powered by Gracenote Mobile MusicID. Gracenote and Gracenote Mobile MusicID are trademarks or registered trademarks of Gracenote, Inc. The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Sony Ericsson is under licence.

microSD and Transflash are trademarks or registered trademarks of SanDisk Corporation. XHTML is a registered trademark of the W3C. Adobe Flash Lite is a trademarks or registered trademark of Adobe Systems Incorporated in the United States and/or other countries.

3GPP™ is a trademark of ETSI in France and other jurisdictions. SyncML is a trademark or registered trademark of Open Mobile Alliance Ltd. Java and all Java based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries.

Twitter is a trademark or registered trademark of Twitter, Inc. Facebook is a trademark or registered trademark of Facebook, Inc. Obigo is a registered trademark of Obigo AB - a Teleca company. Windows is a trademark or registered trademark of Microsoft Inc.

Java, JavaScript and Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc., in the U.S. and other countries.

End-user license agreement for Sun Java Platform, Micro Edition

1. Restrictions: Software is confidential copyrighted information of Sun and title to all copies is retained by Sun and/or its licensors. Customer shall not modify, decompile, disassemble, decrypt, extract, or otherwise reverse engineer Software. Software may not be leased, assigned, or sublicensed, in whole or in part.

2. Export Regulations: Software including technical data, is subject to U.S. export control laws, including the U.S. Export Administration Act and its associated regulations, and may be subject to export or import regulations in other countries. Customer agrees to comply strictly with all such regulations and acknowledges that it has the responsibility to obtain licenses to export, re-export, or import Software. Software may not be downloaded, or otherwise exported or re-exported (i) into, or to a national or resident of, Cuba, Iraq, Iran, North Korea, Libya, Sudan, Syria (as such listing may be revised from time to time) or any country to which the U.S. has embargoed goods; or (ii) to anyone on the U.S. Treasury Department's list of Specially Designated Nations or the U.S. Commerce Department's Table of Denial Orders.

3. Restricted Rights: Use, duplication or disclosure by the United States government is subject to the restrictions as set forth in the Rights in Technical Data and Computer Software Clauses in DFARS 252.227-7013(c) (1) and FAR 52.227-19(c) (2) as applicable.

All other trademarks and copyrights are the property of their respective owners.